Zelus renardii Kol. The assassin bug was prevalent on basil and other weeds.

Reduviolus capsiformis (Germ.). Another predacious bug was common in grasses.

Nesosteles hospes Kirk. On grasses.

Oliarus discrepans Giffard. The nymphs were found under a stone.

Insect Fauna of Gossypium tomentosum

BY O. H. SWEZEY

(Presented at the meeting of March 1, 1934)

This native species of cotton grows in dry lowland regions of Oahu and Molokai (according to Hillebrand, on all the islands). It is not known to have any species of endemic insect particularly attached to it. Dr. Perkins has recorded *Proterhinus deceptor* Perkins as occurring on it, but this beetle occurs on several other plants also. There is quite an area of *Gossypium tomentosum* among the algaroba trees of the flats west of Makapuu Head, Oahu. On February 4th, 1934, I made the effort to obtain some *Proterhinus deceptor* from these cotton plants, and succeeded in obtaining 5 specimens. While sweeping in the efforts to secure these, I obtained 2 specimens of *Rhyncogonus simplex* Perkins, the species which occurs on Molokai, and of which Mr. F. C. Hadden discovered a small colony on Koko Head, Oahu, January 11th, 1928.

Interested in learning more of this new colony of Rhyncogonus, I visited the region again on February 11th, when 53 specimens of the beetle were collected from the cotton plants. The beetles were found over an area of 100 yards or more in extent. Subsequent visits were made to the region to make observations on the seasonal occurrence, habits, etc., of *R. simplex*, and records kept of all kinds of insects which were taken on cotton at these times. The annotated list follows:

Proc. Haw. Ent. Soc., IX, No. 1, July, 1935.

COLEOPTERA

*Rhyncogonus simplex Perkins. The adult beetles feed on the leaves. The clusters of eggs are deposited between the edges of the folded-together tip of a leaf, which is cemented together for protection of the eggs. The larvae live in the ground.

*Proterhinus deceptor Perkins. The larvae live in dead twigs.

*Hypothenemus maculicollis Sharp. The larvae live in dead twigs.

Hypothenemus eruditus Westw. The larvae live in dead twigs,

Catorama pusilla Sharp. The larvae live in dead twigs.

Prosoplus bankii (Fab.). The larvae live in dead twigs.

Sybra alternans Wied. The larvae live in dead twigs.

Diachus auratus (Fab.). The adults and larvae are leaf-feeders.

Ladybeetles

Pullus kinbergi (Boh.) Aphis-feeding ladybeetle.

Scymnus notescens (Blkb.). Aphis-feeding ladybeetle.

Platyomus lividigaster Muls. Aphis-feeding ladybeetle.

Coelophora inequalis (Fab.). Aphis-feeding ladybeetle.

Scymnus debilis Lec. Mealybug-feeding ladybeetle.

Nephus sp. near bipunctatus. Mealybug-feeding ladybeetle.

Cryptolaemus montrouzieri Muls. Mealybug-feeding ladybeetle.

Rhizobius ventralis (Erich.). Mealybug-feeding ladybeetle.

Curinus coeruleus (Muls.). Mealybug-feeding ladybeetle.

Lindorus lophanthae (Blaisd.). Scale-feeding ladybeetle.

Chilocorus circumdatus Schön. Scale-feeding ladybeetle.

Azya lutiepes Muls. Scale-feeding ladybeetle.

Rhodalia cardinalis (Muls). Feeds on cottony cushion scale.

HETEROPTERA

Zelus renardii Kol. Predacious bug, feeding on many kinds of insects.

*Ithamar hawaiiensis Kirkaldy. Plant-feeding bug. Corizus hyalinus (Fab.). Plant-feeding bug. Nysius delectus White. Plant-feeding bug. Nysius coenosulus Stal. Plant-feeding bug.

HOMOPTERA

Saissetia nigra (Nietn.). Black scale. Hemichionaspis minor (Mask.). Hibiscus scale. Icerya purchasi Mask. Cottony cushion scale.

Pseudococcus filamentosus (Ckll.). Filamentous mealybug.

Aphis gossypii Glover. Cotton aphis.

*Oliarus discrepans Giffard.

NEUROPTERA

Coniocompsa vesiculigera End.

ISOPTERA

Kalotermes immigrans Snyder. Colonies in dead branches.

LEPIDOPTERA

Platyedra gossypiella (Saund.). Larvae feed in seeds.

HYMENOPTERA

Lithurgus scabrosus Smith. Bee, feeding at flowers.

Megachile palmarum Perkins. Bee, feeding at flowers.

Solenopsis geminata rufa (Jerdon). The fire ant.

Paratrechina longicornis (Lat.). The crazy ant.

Plagiolepis mactavishi Wheeler. The little yellow ant.

Tapinoma melanocephalum (Fab.). The black-headed ant.

Pheidole megacephala (Fab.). The big-headed ant.

Perisierola emigrata Rohwer. Parasite on Platyedra gossypiella.

 ${\it Glyptocolastes\ bruchivorus}$ Crawf. Parasite on bruchid in algaroba beans.

Anagyrus dactylopii (How.) Parasite of Pseudococcus filamentosus.

Anagyrus sp. An undetermined mealybug parasite.

Bothriencyrtus insularis (Cam.). Parasite of Ferrisia virgata.

Protaenasius sp. A recently introduced mealybug parasite from Mexico.

*Eupelmus sp. A male. Parasitic habits not known.

Of these 49 species of insects very few are endemic in Hawaii (those marked with an asterisk probably are), the others are immigrants, or purposely introduced parasites, and ladybeetles.

At Kanoa, Molokai, October 27, 1930, the following Coleoptera were found boring in dead stems of this Gossypium:

Amphicerus cornutus (Pallas).

Sinoxylon conigerum Gerst.

Xylopsocus castanoptera (Fairm.).